

CLAIMS:

1. An assembly comprising
- a display device provided with a pattern of pixels (3) driven by a control circuit (8),
- and an illumination system for illuminating the display device,
5 - said illumination system comprising a light-emitting panel (11) and at least one light source (16, 16', 16", ...), said light source (16, 16', 16", ...) being associated with the light-emitting panel (11), characterized in that
- the light source comprises at least two light-emitting diodes (16, 16', 16", ...) having different light-emission wavelengths, and
10 - the control circuit (8) also drives the luminous fluxes of the light-emitting diodes (16, 16', 16", ...) in dependence upon an image to be displayed by the display device.

2. An assembly as claimed in claim 1, characterized in that the control circuit (8) varies the intensities of the light emitted by the light-emitting diodes (16, 16', 16", ...) in response to the illumination level of the image to be displayed by the display device.
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3. An assembly as claimed in claim 1 or 2, characterized in that the intensities of the light emitted by the light-emitting diodes (16, 16', 16", ...) can be adjusted on a frame-to-frame basis.
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4. An assembly as claimed in claim 1 or 2, characterized in that the intensities of the light emitted by the light-emitting diodes (16, 16', 16", ...) can be adjusted for each color on a frame-to-frame basis.

25 5. An assembly as claimed in claim 1 or 2, characterized in that the light source comprises at least three light-emitting diodes (16, 16', 16", ...) having different light-emission wavelengths.

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6. An illumination system as claimed in claim 1 or 2, characterized in that each of the light-emitting diodes (16, 16', 16", ...) comprises a luminous flux of at least 5 lm.

7. An illumination system as claimed in claim 6, characterized in that the light-emitting diodes (16, 16', 16", ...) are mounted on a printed circuit board.

8. A display device for use in an assembly as claimed in claim 1 or 2.

9. An illumination system for use in an assembly as claimed in claim 1 or 2.